

CLASSIFICATION CONFIDENTIAL
 SECURITY INFORMATION
 CENTRAL INTELLIGENCE AGENCY
 INFORMATION FROM
 FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

CD NO.

50X1-HUM

COUNTRY Hungary

SUBJECT Economic - Heavy and light industry; industrial,
 Biographic agricultural, mining machineryHOW
 PUBLISHED Daily newspapersDATE OF
 INFORMATION 1952 - 1953

DATE DIST. 15 May 1953

WHERE
 PUBLISHED Budapest

NO. OF PAGES 2

DATE
 PUBLISHED 27 Dec 1952 - 15 Jan 1953

LANGUAGE Hungarian

SUPPLEMENT TO
 REPORT NO.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE
 OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793
 AND 794, OF THE U.S. CODE, AS AMENDED. ITS TRANSMISSION OR REVE-
 LATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON IS
 PROHIBITED BY LAW. THE REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

SOURCE Newspapers as indicated.

NEW HUNGARIAN MACHINERY
FOR INDUSTRY, AGRICULTURE, MINING

BUILD PROTOTYPE FOR NEW MACHINES -- Budapest, Nepszava, 15 Jan 53

The Ujitasokat Kivitelezó Vallalat (Enterprise for the Realization of In-
 novations) builds prototypes of machines designed or invented in Hungary. Gyula
 Varkonyi, director of the enterprise, and Vidor Bokar, chief engineer, are per-
 fecting the models of four such machines at present.

The new loom invented by Varkonyi and Bokar will be much smaller than pre-
 vious ones. The shuttle travels in a rapid elliptical course from front to back
 instead of from right to left. The cloth beam is located above the machine
 rather than in front, and the beamer is placed below instead of behind it.

The loom weaves on its reverse side too, so that it makes two pieces of
 cloth simultaneously.

On his recent visit to the enterprise, the Soviet expert on light industry,
 Altukhov [fnu], called the loom the most revolutionary invention in 150 years
 in the weaving industry.

The enterprise is also testing the deep drilling machine invented by En-
 dre Gal and Karoly Gerber, both Kossuth-Prize-winning engineers. Preliminary
 tests at Komlo and Esztergom indicated that the drill bores through even the
 hardest stone layers, without bending or running untrue, eight to ten times more
 quickly than an ordinary drill. Blueprints for the mass production of the drill
 are now being made.

The enterprise is currently constructing the hydraulic coal cutter invented
 by Varosi and Csapo [fnu], engineers of the Ozd coal mines. The cutter is easy
 to handle. The blades operate by gouging into the coal face under extreme pres-
 sure and cutting out large blocks of coal, thus greatly reducing pulverization.
 When put in use, the machine will represent a saving of 400 million forints
 [over previous cutting methods?].

- 1 -

CLASSIFICATION		CONFIDENTIAL	
STATE	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> NSRB	DISTRIBUTION
ARMY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI	

50X1-HUM

CONFIDENTIAL

Last week, the enterprise completed the third prototype for a crude oil pump. Oil pumps have been imported in the past. The Hungarian models use 60 percent less fuel than the imported types.

MANUFACTURE NEW AGRICULTURAL MACHINERY -- Budapest, Nepszava, 4 Jan 53

The new Hungarian DT-413 caterpillar tractor is manufactured by the Voros Csillag Traktorgyar (Red Star Tractor Plant) on the basis of the blueprints of the Soviet DT-54 tractor. The new machine is equipped with a diesel motor. It consumes 30-35 percent less fuel than tractors not equipped with caterpillar treads.

The skim colter plow tractor has a skim colter, or smaller gang plow, before each regular gang plow. The colter is about two thirds the size of the gang plow and cuts away top soil to a depth of about 10 centimeters. This top soil falls into the furrow and is covered with subsoil by the gang plow.

The Mezogazdasagi Gepgyar (Agricultural Machine Plant) in Szombathely is making fodder harvesters specially adapted to the cutting and ensiling of corn. The machine picks up the cut cornstalks, twists them on a mechanism similar to the rotary blades of a meat grinder, and conveys them into cutters. After being cut, they are blown into a trailer wagon.

Soviet-type milking machines and corn planters having seed drills accurately spaced 60-70 centimeters apart are also being manufactured.

INVENT COGWHEEL ROLLING MACHINE -- Budapest, Esti Budapest, 27 Dec 52

Antal Cseparkalovics, division chief, and Janos Paxian, technician, both of the Rakosi Matyas Muvek (Matyas Rakosi Works) have invented a cogwheel rolling machine, which makes cogwheels ranging from 20 to 200 millimeters in diameter to an accuracy of .06 millimeter.

A piece slated for the new machine is heated rapidly by high-frequency current. A red light flashes when the required temperature is attained, and an automatic arm reaches out and places the piece on the rolling device.

The new machine takes 22 seconds to complete a job which formerly took 20-25 minutes.

- E N D -

- 2 -

CONFIDENTIAL